

Docket No. PRD-26 CIP

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: De Corte, B. et al.

Serial No.: 10/782,060

Art Unit: 1646

Filed

: February 18, 2004

Examiner: Not yet assigned

For

: PIPERIDINYL TARGETING COMPOUNDS THAT SELECTIVELY

BIND INTEGRINS

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Myra H. McCormack (Hame of applicant, assignee, or Registered Representative)

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#### INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the aboveidentified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. \$1.56(b).

Applicant(s) reserve(s) the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist.

In accordance with \$1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified national application (other than a continued prosecution application under \$1.53(d)), within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, or before the mailing date of a first Office Action on the merits of the above-identified application, or before the mailing date of a first Office Action after the filing of a request for continued examination under §1.114, no additional fee is required. In accordance with \$1.129(a), this Information Disclosure Statement is being filed in connection with [ ] the first or second After Final Submission, therefore: Statement in Accordance with \$1.97(e) (attached); or

Please charge Deposit Account No. 10-0750/ / the fee of \$180.00 as set forth in \$1.17(p).

In accordance with §1.97(c), this Information
Disclosure Statement is being filed after the period set forth
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patent literature are enclosed in accordance with 37 CFR 1.98 (a)(2). (The U.S. patents and each U.S. patent application

publication listed on the attached Form PTO-1449 are not

enclosed because this U.S. patent application was filed after June 30, 2003 or this international application has entered the national stage under 35 USC §371 after June 30, 2003 (see USPTO waiver of requirement under 37 CFR 1.98 (a)(2)(i).

There are no listed references which are not in the English language.

The relevance of those listed references which are not in the English language is as follows:

Attached are copies of search report(s) from corresponding patent application(s), which are listed on the attached Submission Under MPEP 609 D.

Attached are the following non-published pending patent applications which may be deemed relevant, which are listed on the attached Submission Under MPEP 609 D.

Please charge any deficiency or credit any overpayment to Deposit Account No. 10-0750/PRD26CIP/MHM. This form is submitted in triplicate.

Respectfully submitted,

Myra H. McCormack Reg. No. 36,602

Attorney for Applicants

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DATED: Qualify John

JUN 17 2004 SUBSTRANCE SUBSTRANCE

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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1	Application Number	10/782/060		
	Filing Date	February 18, 2004		
	First Named Inventor	DeCorte, B.		
	Group Art Unit	1646		
	Examiner Name	Not yet assigned		
	Attorney Docket Number	PRD-26 CIP		

#### U.S. PATENT DOCUMENTS

		U.S. Patent Document						
Examiner Initials	Cite No.1			Number	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear
		4,289,772		Campbell, S. et al.	09-15-1981			
		6,211,191	B1	Meissner, R.S. et al.	04-03-2001			
		5,919,792	B1	Duggan et al	07-06-1999			
		5,855,866		Thorpe et al	01-05-1999			
		6,342,219		Thorpe et al	01-29-2002			
		5,902,795		Toole et al	05-11-1999			
		5,762,918		Thorpe	06-09-1998			
		5,474,765		Thorpe	12-12-1995	•		
·		2002/0016625	A1	Falotico et al	02-07-2002			
			- 1111-2					
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#### FOREIGN PATENT DOCUMENTS

		Foreign	Patent Docume	ent	Name of Patentee or	Date of Publication of Cited Document	Pages, Columns, Lines, where relevant	
Examiner Initials	.Cite	Office <sup>3</sup>	Number⁴ K	indCode <sup>5</sup>	Applicant of Cited Document	mm-dd-yyyy	passages or relevant figures appear	. Le
		wo	9409029		Merck and Co., Inc.	04-28-1994		
		wo	99/31061	A1	Merck and Co., Inc.	06-24-1999		
		wo	00/72801	A2	Merck and Co., Inc.	12-07-2000		
		wo	01/96334	A2	Pharmacia Corporation	12-20-2001		
		wo	01/23376	A1	Ortho-McNeil Pharmaceutical, Inc.	04-05-2001		
		wo	00/35887	A2	Du Pont Pharmaceuticals Company	06-22-2000		
		wo	00/35492	A2	Du Pont Pharmaceuticals Company	06-22-2000		

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t Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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		Foreign	Patent Docum	nent	Name of Patentee or	Date of Publication of Cited Document	Pages, Columns, Lines, where relevant		
Examiner Initials	Cite No.1		Office <sup>3</sup>	Number <sup>4</sup>	KindCode <sup>5</sup>	Applicant of Cited Document	mm-dd-yyyy	passages or relevant figures appear	T⁵
		wo	00/35488	A2	Du Pont Pharmaceuticals Company	06-22-2000			
		wo	99/58162	A2	Du Pont Pharmaceuticals Company	11-18-1999			
		wo	96/32907	A1	Schneider (USA) Inc.	10-24-1996			
		wo	00/33838	A1	Smithkline Beecham Corporation	06-15-2000			
		wo	00/48603	A1	Merck & Co. Inc.	08-24-2000			
		wo	99/15508	A1	Smithkline Beecham Corporation	04-01-1999			
		wo	98/25892	A1	Eli Lilly and Company	06-18-1998			
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First Named Inventor	DeCorte, B.			
Group Art Unit	1646			
Examiner Name	Not yet assigned			
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	Г	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS  Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item	
Examiner's Initials*	Cite No.1	(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		KATANO, K. et al: "Tetrahydrothienopyridine derivatives as novel GPIIb/lia antagonists". Bioorganic & Medicinal Chemistry Letters (1996), 6(21), 2601-2606.	
		KLEIN, S.I. et al: "Design of a New Class of Orally Active Fibrinogen Receptor Antagonists". Journal of Medicinal Chemistry (1998), 41(14), 2492-2502.	
		GRUMEL, V. et al: "Synthesis of Substituted Oxazolo '4,5-blpyridine Derivatives". Heterocycles (2001), 55(7), 1329-1345.	
		FISHER, M.J. et al: "Fused Bicyclic Gly-Asp.betaturn Mimics with Potent Affinity for GPIIb-IIIa. Exploration of the Arginine Isostere". Bioorganic & Medicinal Chemistry Letters (2000), 10(4), 385-389.	
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		SU, T. et al. "Fibrinogen Receptor (GPIIB-IIIA) Antagonists Derived From 5,6-Bicyclic Templates. Amidinoindoles, Amidinoindazoles, and Amidinobenzofurans Containing the N-Alpha-Sulfonamide Carboxylic Acid Function as Potent Platelet Aggregation Inhibitors". Journal of Medicinal Chemistry, American Chemical Society. Washington, U.S., vol.40, no.26, 1997, pages 4308-4318.	
		VARON, D. et al: "Inhibition of Integrin-Mediated Platelet Aggregation, Fibrinogen-Binding, and Interactions with Extracellular Matrix by Nonpeptidic Mimetics of Arg-Gly-Asp". Thrombosis and Haemostasis, Stutthard, DE vol. 70, no.6, 1993, pages 1030-1036.	
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		SAMANEN, J. et al. "Vascular Indications for Integrin Alphav Antagonists". Current Pharmaceutical Design, Bentham Science Publishers, Schiphol, NL, vol. 3, 1997, pgs. 545-584.	
		Amon, et al., Monoclonal Antibodies for Immunotargeting of Drugs In Cancer Therapy, Monoclonal Antibodies and Cancer Therapy, Reisfeld, et al. (eds.), pp. 243-256 (Alan R. Liss, Inc. 1985)	
		Brooks et al., Cell, 1994, 79, 1157-1164	
		de Groot FM, et al, "Design, synthesis, and biological evaluation of a dual tumor-specific motive containing integrin-targeted plasmin-cleavable doxorubicin prodrug, Mol. Can Ther. Sept. 2002, (11) pp. 901-911	

- 1	Examiner	Date	
- 1	Signature	Considered	

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Group Art Unit	1646			
Examiner Name	Not yet assigned			
Attorney Docket Number	PRD-26 CIP			

Examiner's Cite No.¹  Cite Initials*  Cite No.¹  G.G. Bishop, "Selective αyβ3-Receptor Blockade Reduces Macrophase Initiation and Restent Balloon angioplasty in the Atherosclerotic Rabbit*, City and/or country where published  G.G. Bishop, "Selective αyβ3-Receptor Blockade Reduces Macrophase Initiation and Restent Balloon angioplasty in the Atherosclerotic Rabbit*, Circulation, Agril 10,2001, pp. 1906-1911  F.A.L.M. Eskens, "Phase I and pharmacokinetic study of continuous twice weekly intra administration of Cliengitide (EMD 121974), a novel inhibitor of the Integrins αyβ3 and αyβ5 in pati advanced solid tumors", European Journal of Cancer, 39, (2003), pp. 917-926  Hellstrom, et al., Antibodies for Drug Delivery, Controlled Drug Delivery (2 <sup>rd</sup> Ed.) Robinson, et al. 623-53 (Marcel Dekker, Inc. 1987)  Hood, J.D., et al. Tumor Regression by Targeted Gene Delivery to the Neovasculature, Science, June, 296, 2404-2407  R.O. Hynes, "A reevaluation of integrins as regulators of angiogenesis", Nature Medicine, Vol. 8, No. 2002, pp. 918-921.  W.J. Hoekstra, Current Medicinal Chemistry, 1998, 5, 195  International J. Pharm., 1986, 33, 201-217  Xiao-Zhu Huang, et al., Inactivation of the Integrin 6 Subunit Gene Reveals a Role of Epithelial In Regulating Inflammation in the Lungs and Skin, Journal of Cell Biology, 1996, 133, 921-28  Melpo Christofidow-Solomiindou, et al., Expression and Function of Endothelial Cell on Integrin Rev Wound-Induced Human Anglogenesis in Human Skin/SCID 25 Mice Chimeras, American J. Pathology, 1997, 151, 976-93  M.C. Friedlander, et al., Science, 1995, 270, 1500-1502  Kerr, J.S., "The alpha v integrin antagonists as novel anticancer agents: an update", Expert Opir Drugs, 2002 Dec; 11(12):1765-74  R.M. Lafrenie, "Trivolvement of Integrin αyβ3- in the Pathhogenesis of Human Immunodeficiency Vi. 1 Infection in Monocytes", Virology 297,2002, pp. 31-38  S.A. Mousa, et al., Emerging Therapeutic Targets, 2000, 4, (2), 143-153  S.A. Mousa, et al., Emerging Therapeutic Targets, 2000, 4, (2), 143-153  S	o itom
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